PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

See item 4 below

FOR FURTHER ACTION

Applicant's or agent's file reference 110/03833

Facsimile No. +41 22 740 14 35

Form PCT/IB/373 (January 2004)

International application No. PCT/IL2004/000923		International filing date (da 06 October 2004 (06.10.2	y/month/year) 2004)	Priority date (day/month/year) 07 October 2003 (07.10.2003)			
International Patent Classification (8th edition unless older edition See relevant information in Form PCT/ISA/237			indicated)	(57,100,00)			
Applicant							
Disc	DISC-O-TECH MEDICAL TECHNOLOGIES, LTD.						
1.	 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a). 						
2.	This REPORT consists of a to	tal of 6 sheets, including this.	a arram al t				
				arching Authority should be read as a reference			
	to the international preliminar	report on patentability (Chap	oter I) instead.	atching Authority should be read as a reference			
3.	This report contains indication	s relating to the following iter	ns:				
Box No. I Basis of the report							
	Box No. II	Priority					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	Box No. IV	Lack of unity of inventio	n				
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industria applicability; citations and explanations supporting such statement						
	Box No. VI Certain documents cited						
	Box No. VII	No. VII Certain defects in the international application					
	Box No. VIII	Certain observations on t	he international applic	cation			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).						
,			Date of issuance of 10 April 2006 (10.				
	The International Bur 34, chemin des Co 1211 Geneva 20, S	lombettes	Authorized officer Simin Baharlou				

Telephone No. +41 22 338 71 30

PATENT COOPERATION TREATY REC'D 17 MAY 2005 INTERNATIONAL SEARCHING AUTHORITY

PAUL FENSTER			,	PCTWIPO			
FENSTER & COMPANY, INTELLECTUAL PROPERTY			TUAL PROPERTY				
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PETACH TIKVA, ISRAEL 49002				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
·				(PCT Rule 43bis.1)			
				Date of mailing 12 MAY 2005			
Applicant	Applicant's or agent's file reference			(day/month/year)	13 MAY 2005		
	110/03833			FOR FURTHER ACTION See paragraph 2 below			
Internatio	nal application N	0.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/IL04	1/00923		06 October 2004 (06.10	•			
Internation	nal Patent Classit	fication (IPC)	or both national classifica	tion and IPC	07 October 2003 (07.10,2003)		
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DISC-0-1	ECH MEDICAL	_ TECHNOL(OGIES, LTD				
1. This o	opinion contains i	indications rel	ating to the following iten	ns:			
\boxtimes	Box No. I	Basis of the	opinion				
	Box No. II	Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial appl Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or in applicability; citations and explanations supporting such statement Box No. VI Certain documents cited			shment of opinion with re	gard to novelty, inve	ntive step and industrial applicability		
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			atement under Rule 43bis	.1(a)(i) with regard to novelty, inventive step or industrial as supporting such statement			
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Box No. VII Certain defects in the international app			cts in the international ap	plication			
	Box No. VIII	Certain obse	ervations on the internation	nal application			
1. FURT	THER ACTIO	N					
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ឯកពុយរំ		SA/220 or bef	ore the expiration of 22 n	PRITITE NATARA the	EA, the applicant is invited to submit to the expiration of 3 months from the date of ity date, whichever expires later.		
. ເചା	ther details, see	notes to Form	PCT/ISA/220.				
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>	ommissioner for Pa O Box 1450	tents	i	David Comstock			
U	Gexandria, Virginia 22313-1450			Telephone No. (57	'1) 272_4710		
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SA 237 (cover sheet) (January 2004)

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Γo:

International application No.
PCT/IL04/00923

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in whice it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
resolvently to this rightority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
rm PCT/ISA/237(Box No. I) (January 2004)
$\cdots \leftarrow \bigcirc (1,1) \cap (1,1) $

International application No. PCT/IL04/00923

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement			· · · · · · · · · · · · · · · · · · ·		
Novelty (N)		3-12, 15, 25 and 34 1, 2, 13, 14, 16-24, 26-33 and 35-72	YE\$ NO		
Inventive step (IS)	Claims Claims		YES NO		
Industrial applicability (IA)	Claims Claims		YES NO		
2. Citations and explanations:			·		
Please See Continuation Sheet					
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Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/IL04/00923

Supplemental Box	. ——		-		
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V. 2. Citations and Explanations:

Claims 1, 2, 13, 14, 16-24, 26-33 and 35 lack novelty under PCT Article 33(2) as being anticipated by KUSLICH et al. (US 5,445,639 A).

KUSLICH et al. disclose a surgical reamer 22 comprising an elongate body, and an expandable head 24 having variable radial dimensions (see, e.g. Figures 11 and 12). The head rotates to crush or drill bone and form an opening therein. The device includes a sleeve that serves to limit the depth the device can be inserted into the bone. The device could be inflated, i.e., filled with air, if so desired. The device could be rotated in either direction and configured to remove different amounts of bone in each direction. The end can serve as a shearing-type drilling device at its outer circumferential vertex. (See Figures 5-14 and column 3, lines 6-16).

Claims 1, 2, 13, 14, 16-24, 26-33 and 35 lack novelty under PCT Article 33(2) as being anticipated by SUDDABY (US 6,224,604 B1).

SUDDABY discloses a surgical reamer 10 comprising an elongate body 12, and an expandable head 20 having variable radial dimensions. The head rotates to crush or drill bone and form an opening therein. The device includes a sleeve 16. The top end 28 of the sleeve is capable of limiting the depth that the device is inserted into bone. The sleeve could be inflated, i.e., filled with air, if so desired. The device could be rotated in either direction and configured to remove different amounts of bone in each direction. The end can serve as a shearing-type drilling device at its effective outer circumferential vertex. (See Figures 1-4 and column 2, lines 20-60).

Claims 36-72 lack novelty under PCT Article 33(2) as being anticipated by ROSENBERG (US 5,374,269 A)
ROSENBERG discloses methods and instruments for ACL reconstruction comprising forming a tunnel with an expansion region in bone, inserting soft material into the region, and fixating soft tissue in the tunnel. The invention includes various modes of attachment comprising interference means, ingrowth means, cementing, etc. Materials for the attachment means comprise any known material for such devices including autogenous, lyophilized, and synthetic bone. The invention includes various ligaments spanning between the attachment means. (See entire document.)

Claims 3-12, 15, 25 and 34 lack an inventive step under PCT Article 33(3) as being obvious over KUSLICH et al. (US 5,445,639 A).

KUSLICH et al. disclose the claimed invention except for disposing the axis of the device at an offset or eccentric location. It would have been obvious to a person of ordinary skill in the art to dispose the axis at an offset or eccentric location as this merely involves the relocation of parts of the invention, which only requires routine skill. Moreover, it is old and well-known to provide eccentric reaming tools for more precise and efficient reaming.

Claims 3-12, 15, 25 and 34 lack an inventive step under PCT Article 33(3) as being obvious over SUDDABY (US 6,224,604 B1).

SUDDABY discloses the claimed invention except for disposing the axis of the device at an offset or eccentric location. It

Form PCT/ISA/237 (Supplemental Box) (January 2004)

International application No. PCT/IL04/00923

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would have been obvious to a person of ordinary skill in the art to dispose the axis at an offset or eccentric location as this merely involves the relocation of parts of the invention, which only requires routine skill. Moreover, it is old and well-known to provide eccentric reaming tools for more precise and efficient reaming.

Claims 1-72 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

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